uſe of the method, not only to aſtronomers, but to all others concerned in making of experiments of any kind (to which the above reaſoning is equally applicable). And the more obſervations or experiments there are made, the leſs will the concluſion be liable to err, provided they admit of being repeated under the ſame circumſtances.

Other examples, and particulars might be added, in confirmation of what is here determined; but as I would not appear tedious to your Lordſhip, I here conclude, who am,

Woolwich, March 4, 1755.

My Lord,

Your Lordſhip's

moſt obedient humble ſervant,

T. Simpſon.

XX. *An Account of the Succeſs of Agaric, and the* Fungus vinoſus, *in Amputations: By Mr.* James Ford, *Surgeon, of* Briſtol.

Briſtol, March 31, 1755.

Read April 10, 1755.

IN 1753 I had ſome pieces of the agaric of the oak brought me from France, which I have frequently uſed with ſucceſs in hæmorrhages, particularly once after the operation for the ſtone, where a large artery lay ſo deep, that it could not conveniently be taken up with a needle. After the publication of Mr. Warner's obſervations, Mr. Thornhill applied it ſucceſsfully to an

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an amputation of an arm, and a leg, in adult ſubjects. I had very early ſuſpicions, that this effect of the agaric was more owing to its texture, than any ſpecific ſtypticity, and therefore determined to try a fungus, very ſimilar to it in ſubſtance, that grows in great abundance on the caſks, walls, *&c.* in wine-vaults, and which the coopers here apply to their wounds, whenever they cut themſelves. I have incloſed two pieces of this *Fungus vinoſus*, one from the caſk, which is of a firmer texture than the other, which was taken from a partition-door in the cellar. I made choice of the former in the following experiment.

A. B. Aged 36, ſtrained his ancle two years ago, from whence an abſceſs in the joint, and caries, enſued: the pain and diſcharge brought on many hectical ſymptoms, particularly a very troubleſome cough. On the 5th inſtant I amputated the leg in the infirmary; and, after the operation, applying my finger to the great artery, unſcrewed the tourniquet, to diſcover the ſmall ones, which the aſſiſtants covered in like manner. I then ſcrewed it to ſuch an exact degree of tightneſs as to ſtop the bleeding from the large artery, which I ſpunged very dry, and applied a thick bit of the fungus, with ſome lint over it, and ſo to each of the others, and dreſſed it up, as uſual, with a ſlight bandage. In five minutes I began to unſcrew the tourniquet, and by ſlow degrees (ſo that the blood might not ruſh too ſuddenly on the extremity of the artery), in half an hour looſened it intirely. In unſcrewing the tourniquet, I kept an account how many turns I made; that, if the artery had bled, I might be able to determine what exact

exact degree of tightneſs was neceſſary to compreſs it again. Four hours after the operation, he had occaſion to uſe the bed-pan, and his efforts to raiſe himſelf made it bleed ſo as juſt to ſtain the roller, but it ſtopped without doing any thing to it. On the ſeventh he had a violent fit of coughing, followed by a vomiting, which renewed the bleeding, and it bled about three or four ounces, but before any one could come to his aſſiſtance, it ſtopp'd: however, the tourniquet was ſcrew'd ſo as to make a ſlight preſſure on the femoral artery for a few minutes, when it was looſened again. On the 10th the ſtump was opened; it had a very fair appearance, and has gone on very well. The fungus did not drop off from the great artery till the 17th.

March 15, Mr. Thornhill performed an amputation, in the infirmary, above the knee, on a man of twenty-one years of age, and applied this fungus. On the 20th it was opened, without the leaſt ſtain of blood; but on the 22d it bled, from a fit of coughing: tightening the tourniquet for a ſhort time ſtopped it, and it has not bled ſince. The fungus adhered to the wound till the 30th.

James Ford.